BRUHATH BANGALORE MAHANAGARA PALIKE

Name of the Agency	:	**Mr. H.S. Nataraj,** Contractor, Bangalore.
Name of the Work	:	Improvements to Roads, Drains and Asphalting to Roads in Vinayaka Layout 1st Main, 1st stage in Ward No.07, BBMP, Bangalore.
Estimate Cost	:	Rs.

QUALITY CONTROL REPORTS TO

Asst. Executive Engineer,
Kodigehalli Sub Division,
BBMP, Bangalore.

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NABL ACCREDITED LABORATOTY AS PER ISO / IEC – 17025:2005
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QUALITY CONTROL REPORTS FOR

CIVIL WORKS

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Job No.: CTCE/BBMP/W.No.07/HSN/CEMENT/2014-15

Date: 15.05.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. H.S. Nataraj,** Contractor, Bangalore.
NAME OF THE WORK	:	Improvements to Roads, Drains and Asphalting to Roads in Vinayaka Layout 1st Main, 1st stage in Ward No.07, BBMP, Bangalore.
REFERENCE	:	EE/BTP/BBMP/E-TND/432/2012-13 Dated: 16.03.2013
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 1989-2013
1	Standard Consistency	IS-4031 (Part -4)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	135 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	480 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

Note:

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Job No.: CTCE/BBMP/W.No.07/HSN/SAND/2014-15 : 15.05.2014

TEST REPORT ON FINE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. H.S. Nataraj,** Contractor, Bangalore.

Name of Work : Improvements to Roads, Drains and Asphalting to Roads in Vinayaka Layout 1st Main, 1st stage in Ward No.07, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-TND/432/2012-13 Dated: 16.03.2013

Date of Testing : 15.05.2014

Material : Sand

Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	50	5.00	5.00	95.0	90-100
2.36	156	15.60	20.60	79.4	75-100
1.18	185	18.50	39.10	60.9	55-90
600 Micron	210	21.00	60.10	39.9	35-59
300 Micron	235	23.50	83.60	16.4	8-30
150 Micron	110	11.00	94.60	5.4	0-10

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Job No.: CTCE/BBMP/W.No.07/HSN/AGG/2014-15 : 15.05.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. H.S. Nataraj,** Contractor, Bangalore.

Name of Work : Improvements to Roads, Drains and Asphalting to Roads in Vinayaka Layout 1st Main, 1st stage in Ward No.07, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-TND/432/2012-13 Dated: 16.03.2013

Date of Testing : 15.05.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **10000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	215	2.15	2.15	97.85	95-100
20	6000	60.00	62.15	37.85	30-70
10	2505	25.05	87.20	12.80	10-35
4.75	1000	10.00	97.20	2.80	0-5

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Job No.: CTCE/BBMP/W.No.07/HSN /STEEL/2014-15 19.05.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. H.S. Nataraj,** Contractor, Bangalore.
Name of the Work	:	Improvements to Roads, Drains and Asphalting to Roads in Vinayaka Layout 1st Main, 1st stage in Ward No.07, BBMP, Bangalore.
Reference	:	EE/BTP/BBMP/E-TND/432/2012-13 Dated: 16.03.2013
Date of Test	:	19.05.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	10	0.62	513	556	13.20	O.K	O.K

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Job No.: CTCE/BBMP/W.No.07/HSN /STEEL/2014-15 19.05.2014

TEST REPORT ON REINFORCEMENT STEEL

Client	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
Agency	:	**Mr. H.S. Nataraj,** Contractor, Bangalore.
Name of the Work	:	Improvements to Roads, Drains and Asphalting to Roads in Vinayaka Layout 1st Main, 1st stage in Ward No.07, BBMP, Bangalore.
Reference	:	EE/BTP/BBMP/E-TND/432/2012-13 Dated: 16.03.2013
Date of Test	:	19.05.2014
Technical Reference	:	IS: 1786-2008

Sl. No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm^2	Tensile strength (Ultimate stress) N/mm^2	Elongation percent gauge length		
1	16	1.58	520	563	13.55	O.K	O.K

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Job No.: CTCE/BBMP/W.No.07/HSN/CUBE/2014-15 19.06.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. H.S. Nataraj,** Contractor, Bangalore.

Name of the work : Improvements to Roads, Drains and Asphalting to Roads in Vinayaka Layout 1st Main, 1st stage in Ward No.07, BBMP, Bangalore.

Reference : EE/BTP/BBMP/E-TND/432/2012-13 Dated: 16.03.2013

Sample ID : Culvert Deck Slab Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	22.05.2014	19.06.2014	8.129	476.5	21.18
2	22.05.2014	19.06.2014	8.269	496.3	22.06
3	22.05.2014	19.06.2014	8.310	516.3	22.95

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